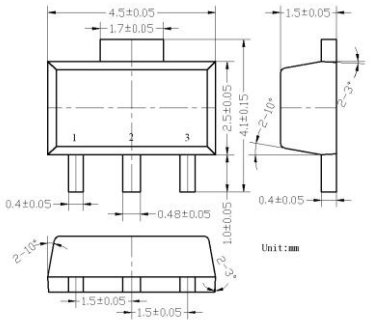
# 2SB1132 TRANSISTOR (PNP)

## Features:

**Compliments 2SD1664**

## MAXIMUM RATINGS ($T_a$=25℃ unless otherwise noted)

| Symbl | Parameter | Value | Unit |
|---|---|---|---|
| $V_{CBO}$ | Collector-Base Voltage | -40 | V |
| $V_{CEO}$ | Collector-Emitter Voltage | -32 | V |
| $V_{EBO}$ | Emitter-Base Voltage | -5 | V |
| $I_C$ | Collector Current-Continuous | -1 | A |
| $I_{CP}$ | Collector Current -Pulsed | -2 | A |
| $P_C$ | Collector Power Dissipation | 500 | mW |
| $T_j$ | Junction Temperature | 150 | ℃ |
| $T_{stg}$ | Storage Temperature | -55-150 | ℃ |




1. BASE
2. COLLECTOR
3. EMITTER

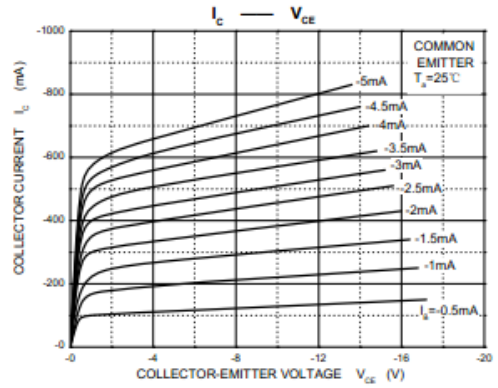
## ELECTRICAL CHARACTERISTICS ($T_a$=25℃ unless otherwise specified)

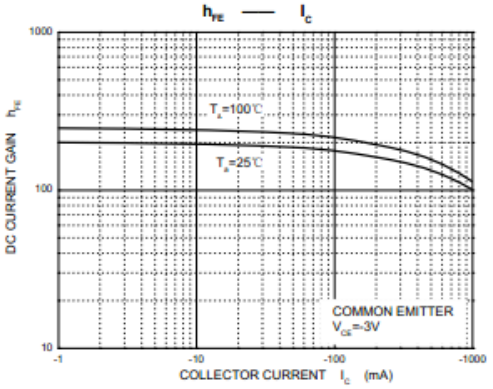
| Parameter | Symbol | Test conditions | Min | Typ | M ax | Unit |
|---|---|---|---|---|---|---|
| Collector-base breakdown voltage | $V(BR)_{CBO}$ | $I_C$= -50uA, $I_E$=0 | -40 | | | V |
| Collector-emitter breakdown voltage * | $V(BR)_{CEO}$ | $I_C$= -1mA, $I_B$=0 | -32 | | | V |
| Emitter-base breakdown voltage | $V(BR)_{EBO}$ | $I_E$= -50uA, $I_C$=0 | -5 | | | V |
| Collector cut-off current | $I_{CBO}$ | $V_{CB}$=-20V, $I_E$=0 | | | -0.5 | uA |
| Emitter cut-off current | $I_{EBO}$ | $V_{EB}$=-4V, $I_C$=0 | | | -0.5 | uA |
| DC current gain | $h_{FE(1)}$ | $V_{CE}$= -3V, $I_C$=-100mA | 82 | | 390 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C$=-500mA, $I_B$=-50mA | | -0.2 | -0.5 | V |
| Transition frequency | $f_T$ | $V_{CE}$=-5V ,$I_C$=-50mA,f=30MHZ | | 150 | | MHZ |
| Collector output capacitance | $C_{ob}$ | $V_{CB}$=-10V, $I_E$=0,f=1MHZ | | 20 | 30 | PF |

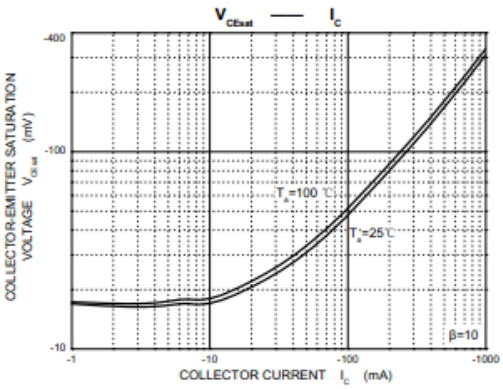
## CLASSIFICATION OF $h_{FE}$

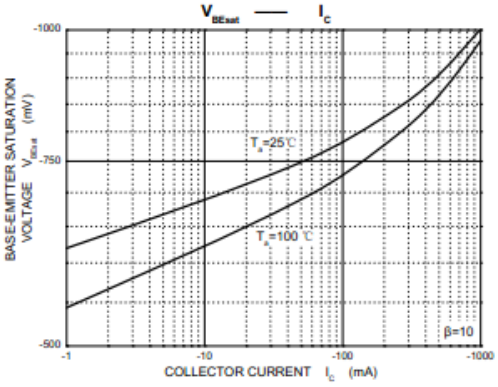
| Rank | P | Q | R |
|---|---|---|---|
| Range | 82-180 | 120-270 | 180-390 |
| Marking | BAP | BAQ | BAR |

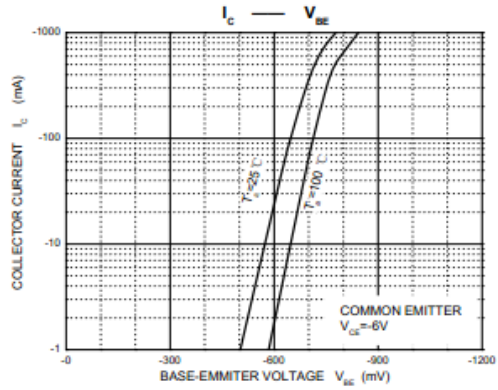
# Typical Characteristics 2SB1132

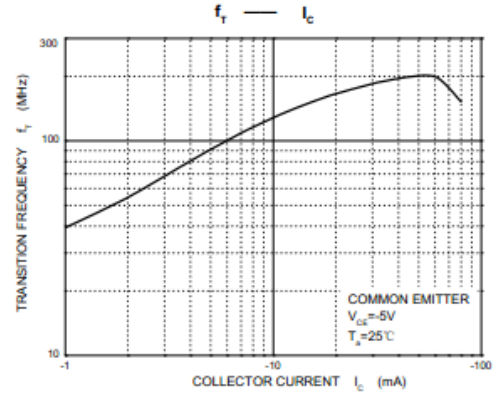


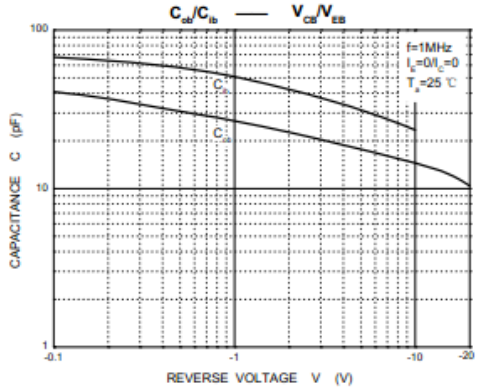



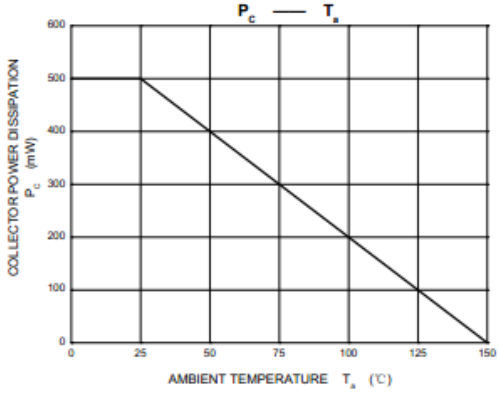



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